

### 第 1 問

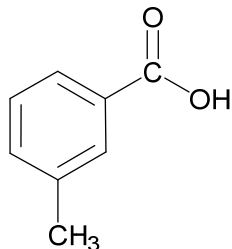
問 1

(1)

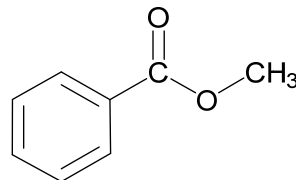
4

(2)

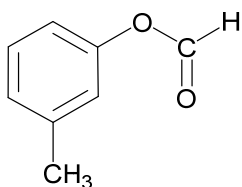
A



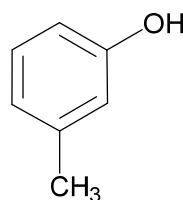
B



C



D



(3)

安息香酸

(4)

ギ酸

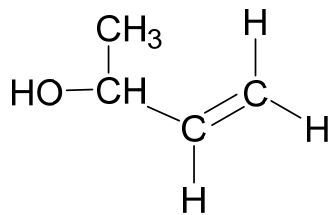
(5)

(う) (え)

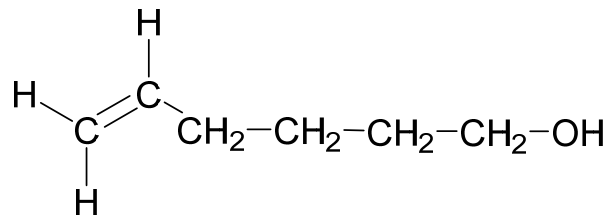
問 2

(1)

F



G



(2)

ア

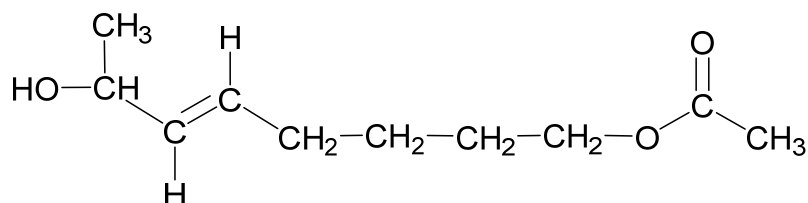
メタノール

イ

一酸化炭素

(3)

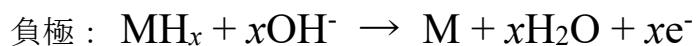
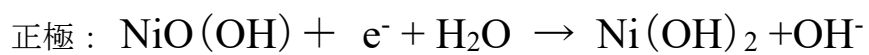
M



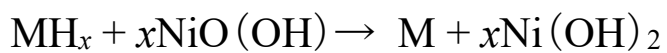
## 第 2 問

問 1

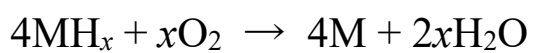
(1)



(2)



(3)



(4)

(i)	1.6 L	$x = 1$
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(ii)	1.9 A · h
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(iii)	13.4 時間	+0.071 g
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## 第 2 問

問 2

(1)

(i)	$2\text{F}_2 + 2\text{H}_2\text{O} \rightarrow 4\text{HF} + \text{O}_2$		
(ii)	ア：電気陰性度		
	アが最小のもの K	アが最大のもの F	
(iii)	1, 2, 4		

(2)

(i)	$4\text{FeS}_2 + 11\text{O}_2 \rightarrow 8\text{SO}_2 + 2\text{Fe}_2\text{O}_3$		
(ii)	$2\text{SO}_2 + \text{O}_2 \rightarrow 2\text{SO}_3$		
(iii)	5.2 kg		
(iv)	2 番目 B	3 番目 D	

### 第 3 問

問 1

(1)	$P_{N_2} (1)$	$1.6 \times 10^5$	Pa
	$P_{C_5H_{12}} (1)$	$6.0 \times 10^4$	Pa

(2)	(i)	$x_{N_2} (A)$	44	%
		$P_{N_2} (2)$	$1.5 \times 10^5$	Pa

(ii)	$P_{C_5H_{12}} (2)$	$1.0 \times 10^4$	Pa
	$n_\ell$	0.41	mol

問 2

(1)	(i)	$I_2 + I^- \rightleftharpoons I_3^-$	
	(ii)	$[I^-] = 0.051$	mol/L
		$K (20^\circ C) = 9.6 \times 10^2$	$(mol/L)^{-1}$
	(iii)	$3.3 \times 10^{-3}$	mol

(2)	(i)	$[H^+] = \frac{K_w C_Y}{K_b C_X}$	
	(ii)	13	g
	(iii)	8.76	